

CLAIMS

What is claimed is:

1. A compression garment for compressing a portion of a body of a patient, the compression garment comprising:
 - a garment body comprising:
 - an outer layer;
 - an inner layer secured to the outer layer, the inner layer at least partially bounding a channel adapted to receive a portion of a body of a patient, the inner layer comprising:
 - a backing comprising a woven fabric sheet or a perforated polymeric sheet having an interior surface facing the channel; and
 - plurality of pressure projections extending from the backing toward the channel, the pressure projections being integrally formed with or mounted on the backing; and
 - a layer of compressible cushioning material disposed between the outer layer and the inner layer.
2. A compression garment as recited in claim 1, wherein the garment body comprises a tubular sleeve adapted to receive an arm or leg of the patient.
3. A compression garment as recited in claim 1, wherein the backing comprises the woven fabric sheet and the pressure projections are integrally woven into the woven fabric sheet.

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4. A compression garment as recited in claim 3, wherein the inner layer comprises a corduroy material.

5. A compression garment as recited in claim 1, wherein the pressure projections comprise a plurality of elongated ribs.

6. A compression garment as recited in claim 1, wherein the pressure projections are sewn or secured by an adhesive to the backing.

7. A compression garment as recited in claim 1, further comprising a cover layer mounted to the inner layer so as to directly cover the pressure projections.

8. A compression garment as recited in claim 7, wherein the cover layer comprises a sheet of resiliently stretchable material.

9. A compression garment as recited in claim 1, further comprising a plurality of compression straps secured to or encircling the garment body.

10. A compression garment as recited in claim 1, wherein the inner layer does not comprise a polymeric foam.

11. A compression garment as recited in claim 1, wherein the garment body has an interior surface and an exterior surface with a maximum non-compressed thickness extending therebetween in a range between about 0.5 cm and about 2 cm.

12. A compression garment as recited in claim 1, wherein the outer layer is comprised of a sheet of woven fabric material.

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13. A compression garment for compressing at least a portion of an arm or a leg of a patient, the compression garment comprising:

 a body having a substantially tubular configuration or having the form of a panel that can be selectively rolled into a substantially tubular configuration, the body comprising:

 an outer layer;

 an inner layer secured to the outer layer, the inner layer at least partially bounding an elongated channel adapted to receive at least a portion of an arm or a leg of a patient, the inner layer comprising:

 a woven fabric sheet having an interior surface facing the channel; and

 plurality of pressure projections extending from the fabric sheet toward the channel, the pressure projections being integrally formed with or mounted on the fabric sheet; and

 a layer of resiliently compressible foam disposed between the outer layer and the inner layer; and

 means for constricting at least a portion of the body when the body is in the at least substantially tubular configuration.

14. A compression garment as recited in claim 13, wherein the pressure projections are integrally woven into the woven fabric sheet.

15. A compression garment as recited in claim 14, wherein the inner layer comprises a corduroy material.

16. A compression garment as recited in claim 13, wherein the pressure projections are mounted onto to the woven fabric sheet.

17. A compression garment as recited in claim 13, wherein the pressure projections comprise brushed cotton, a brushed polymeric material, woven fabric, or piled fabric.

18. A compression garment as recited in claim 13, wherein the pressure projections do not comprises polymeric foam.

19. A compression garment as recited in claim 13, further comprising an cover layer mounted on the inner layer so as to directly cover the pressure projections.

20. A compression garment as recited in claim 13, wherein the means for constricting at least a portion of the body comprises a plurality of compression straps secured to or encircling the garment body.

21. A compression garment as recited in claim 13, wherein the means for constricting at least a portion of the body comprises a resiliently stretchable tubular sock that can be selectively pulled over the body.

22. A compression garment as recited in claim 13, wherein the body comprises:

a tubular sleeve configured to receive an arm of the patient; and
a tubular hand portion configured to receive a hand of the patient.

23. A compression garment as recited in claim 22, wherein the tubular sleeve has a thickness and the tubular hand portion has a thickness that is greater than the thickness of the tubular sleeve.

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24. A method for manufacturing a compression sleeve, the method comprising:

stretching a cover layer comprised of a resiliently stretchable sheet of material;

either before or after stretching the cover layer, applying an adhesive to at least an exterior surface of the cover layer or an interior surface of an inner layer, the inner layer having a plurality of spaced apart pressure projections on the interior surface;

securing the exterior surface of the stretched cover layer to the interior surface of the inner layer; and

either before or after securing the stretched cover layer to the inner layer, attaching an outer layer over an exterior surface of the inner layer, the combined cover layer, inner layer, and outer layer forming a body.

25. A method as recited in claim 24, further comprising securing the body into the form of a tubular sleeve.

26. A method as recited in claim 24, further comprising positioning a layer of polymeric foam between the inner layer and the outer layer.

27. A method as recited in claim 24, wherein the inner layer is comprised of a corduroy material.

28. A compression garment system for compressing at least a portion of an arm or a leg of a patient, the compression garment system comprising:

 a body having a substantially tubular configuration or having the form of a panel that can be selectively rolled into a substantially tubular configuration, the body having an exterior surface and an opposing interior surface, the interior surface bounding a channel configured to receive at least a portion of an arm or a leg of a patient;

 a plurality of compression straps removably disposed on the exterior surface of the body, each compression strap being configured to selectively constrict around the body when the body is in the substantially tubular configuration; and

 a tubular compression sock comprised of a resiliently stretchable material, the compression sock being configured to encircle at least a portion of the body when the body is in the substantially tubular configuration so as to radially inwardly compress the body when the compression straps are removed from the body.

29. A compression garment system as recited in claim 28, wherein the body comprises an inner layer, the inner layer comprising:

 a backing comprising a woven fabric sheet or a perforated polymeric sheet having an interior surface facing the channel; and

 plurality of pressure projections extending from the backing toward the channel, the pressure projections being integrally formed with or mounted on the backing.

30. A compression garment system as recited in claim 29, wherein the inner layer comprises a corduroy material.

31. A compression garment system as recited in claim 29, wherein the body comprises an outer layer secured to the inner layer, the outer layer comprising a sheet of woven fabric.

32. A compression garment system as recited in claim 31, further comprising a layer of polymeric foam disposed between the inner layer and the outer layer.

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33. A compression garment for compressing at least a portion of an arm or a leg of a patient, the compression garment comprising:

a body comprising:

a sleeve having a substantially tubular configuration or having the form of a panel that can be selectively rolled into a substantially tubular configuration, the sleeve having an exterior surface and an opposing interior surface, the interior surface bounding a channel configured to receive at least a portion of an arm or a leg of a patient; and

a terminal portion mounted at an end of the sleeve, the terminal portion having an interior surface encircling a channel adapted to receive a hand or foot of the patient, the terminal portion being configured to apply progressive pressure along the length of the hand or the foot when received therein without the use of an external pressure force; and a plurality of compression straps connected to or removably disposed on the exterior surface of the sleeve, each of the compression straps being configured to selectively constrict around the sleeve when the compression sleeve is in the substantially tubular configuration.

34. A compression garment as recited in claim 33, wherein no compression straps are mounted on or encircle the terminal portion of the body.

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35. A compression garment as recited in claim 33, wherein the body comprises an inner layer, the inner layer comprising:

a backing comprising a woven fabric sheet or a perforated polymeric sheet having an interior surface facing the channel; and

plurality of pressure projections extending from the backing toward the channel, the pressure projections being integrally formed with or mounted on the backing.

36. A compression garment as recited in claim 35, wherein the inner layer comprises a corduroy material.

37. A compression garment as recited in claim 35, wherein the body comprises an outer layer secured to the inner layer, the outer layer comprising a sheet of woven fabric.

38. A compression garment as recited in claim 37, further comprising a layer of polymeric foam disposed between the inner layer and the outer layer.

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39. A method for applying pressure to an arm or leg of a patient, the method comprising:

inserting an arm or a leg of a patient into a channel of a sleeve such that a corresponding hand or foot of the patient is received within a channel of a terminal portion at the end of the sleeve, the terminal portion being contoured to apply progressive pressure to the hand or foot along the length thereof without adjustment or applying external force to the terminal portion; and

applying an external pressure force to the sleeve over the arm or leg of the patient so as to apply a compressive force to the arm or leg, the external pressure force not being applied to the terminal portion extending over the hand or foot.

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